

# Wireless Bed Scale

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*Model D1100 Series  
Version 1.0*

## Installation & Operation Manual





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Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at [www.ricelake.com/training](http://www.ricelake.com/training) or obtained by calling 715-234-9171 and asking for the training department.



*Rice Lake continually offers web-based video training on a growing selection of product-related topics at no cost. Visit **[www.ricelake.com/webinars](http://www.ricelake.com/webinars)**.*

# About This Manual

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This manual can be viewed and downloaded from the Rice Lake Weighing Systems website at [www.ricelakehealth.com](http://www.ricelakehealth.com). Rice Lake Weighing Systems is an ISO 9001 registered company.

## 1.0 Safety

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There are certain precautions that should be taken to prevent personal injury to the user and damage to your device. Follow instructions for installation and usage. The manufacturer is not responsible for any damage or injury from incorrect operation or manipulation by the user.

If any problem occurs during the operation, turn off the device first and follow the instructions in the manual. If the problem remains, contact Rice Lake Weighing Systems.

### 1.1 Safety Signals

#### Safety Signal Definitions:



Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.



Indicates information about procedures that, if not observed, could result in damage to equipment.

### 1.2 Safety Precautions

This device is designed and manufactured on the basis of the International Standard for Medical Equipment.



*Do not operate or work on this equipment unless you have read and understand the safety information and instructions in the manual. Please follow these instructions carefully. Contact any Rice Lake Weighing Systems dealer for replacement manuals. Proper care is your responsibility.*

## General Safety

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*Failure to follow the instructions or heed these warnings could result in serious injury or death.*

*Inside of the device must be handled only by a qualified trained person. The customers must not touch or handle the inside of this device under any circumstance. It may cause an electric shock or a flame out.*

*The following precautions must be observed for customer's safety.*

- *This device has been adjusted to the optimal performance at the time of factory release.*
- *Do not attempt to modify or adjust any preset controls or switches except those specified in this manual for operation. If any modification is needed, ask your local distributor for service.*
- *If you have any trouble with this device, turn it off immediately and contact your local distributor for assistance.*
- *Avoid the following environments in using or storing this device.*
  - *Where the ambient temperature falls below 50°F or exceeds 95°F (10°C or exceeds 35°C) for use.*
  - *Where the humidity falls below 30% or exceeds 75% for use.*
  - *Where the humidity is over 95% for storage.*
  - *Where this device is exposed to water stream or splashing water.*
  - *Where this device is exposed to dust.*
  - *Where this device is exposed to excessive shock or vibration.*
  - *Where this device is exposed to direct sunlight.*

- In case of using this device after a long period of non-use, it should be checked carefully before use.
- Observe general precautions on using electric devices and the things specified in this manual.
- The device must not be cleaned with lubricant or alcohol-based products. Use a dry cloth or wet tissue.



*In case of mechanical failure, please contact Rice Lake Weighing Systems.*



**Important**

*This equipment has been tested and found to comply with the limits for medical devices to the IEC 60601-1-2:1994. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.

## 1.3 FCC/CE Notice

Controller FCC ID: Y96141511

Scale Pads FCC ID: Y961415100

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protections against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without approval of the manufacturer could void the user's authority to operate the equipment.

For technical assistance, call Rice Lake Weighing Systems at 1-800-472-6703.

## 2.0 Introduction

The D1100 Series wireless bed scale provides home healthcare, skilled nursing facilities, and hospital communities with a lightweight, portable and wireless alternative to weigh bed ridden patients. The wireless bed scale is incredibly easy to set up and operate. The D1100 Series comes in two models:

- D1100-8 — 800 lb (363 kg) capacity
- D1100-12 — 1200 lb (544 kg) capacity

## 3.0 System Setup

### 3.1 Unpacking the Scale

Visually inspect the D1100 Series scale to ensure all components are included and undamaged. Standard hardware includes:

Item Description	Quantity
Scale Pads 	4
Handheld Controller 	1
Roll on Mini Ramps 	4
Wheel Stop 	4

Table 3-1. D1100 Component Parts

Item Description	Quantity
Bed Rail Mount 	1

Table 3-1. D1100 Component Parts

If any parts were damaged in shipment, notify Rice Lake Weighing Systems and the shipper immediately and keep the original packaging material for inspection by the carrier's representative. It is also helpful in the claim process to take pictures of the condition of the packaging and damage.



**Note**

*After unpacking the scale, allow approximately 5-10 minutes for the scale to adjust to room temperature.*

## 3.2 Re-packing

If the D1100 Series scale must be returned for modification or repair, it must be properly packed with sufficient packing materials. Whenever possible, use the original carton when shipping the scale back.



**Important**

*Damage caused by improper packaging is not covered by the warranty.*

## 3.3 Handheld Controller Key Functions

The following section explains the functions of the handheld controller.

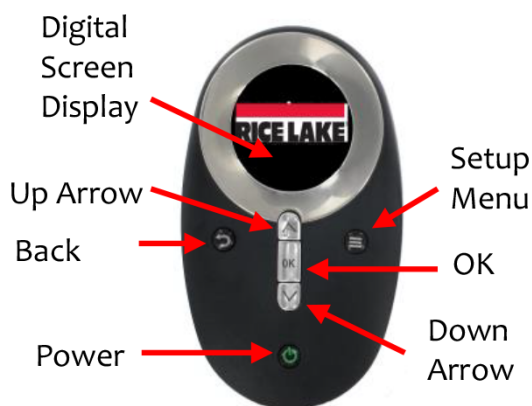


Figure 3-1. Handheld Controller Key Functions

Key	Function
Up/Down Arrow	Used to toggle to through menu items.
Back	Used to backspace on entries.
Power	Turns the handheld unit on/off. When handheld unit is turned on, will activate the scale pads.
Setup Menu	This enters into Setup Menu.
OK	Used to accept the value.

Table 3-2. Key Functions



## 4.0 Using the Scale

The D1100 Series wireless bed scale has three different modes available when using the scale.

- Weigh Patient
- Select Patient/Record
- Tare

### 4.1 Weigh Patient

This mode is an easy way to get a quick weight reading of a patient. Use the following steps to weigh a patient.



**Note**

*This mode includes the total weight of the patient and the bed.*

Prior to weighing a patient the scale must be tared or zeroed out first.

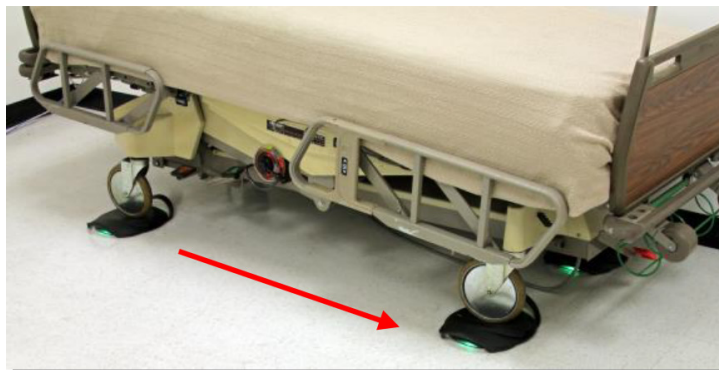
1. Place each scale pad on a solid, flat surface (tile, cement, hardwood).
2. Put a wheel stop on each of the scale pads. (shown in Figure 4-1).
3. Place the mini ramps onto the scale pad (shown in Figure 4-1).

Wheel Stop



*Figure 4-1. Wheel Stop and Mini Ramp Attached to Scale Pad*

4. Seek assistance to help roll the bed onto the scale pads. For best results keep the wheels as close to the center of the pads as possible.



*Figure 4-2. Roll Bed Onto Scale Pads and Set Brakes*

5. Set the brakes on the bed and remove mini ramps.
6. To power up the controller, press and hold the green power button until the controller turns on (approximately two seconds). The controller will briefly display the company logo and version number, then displays the main menu screen.
7. Press the down arrow key to select *Tare* from the main menu on the hand held display and press **OK**.
8. *Make sure bedding is on bed* is displayed. Press **OK** to continue the zeroing out function. As the controller is in process, the screen will go dim for approximately five seconds and while the controller is zeroing out each pad, the scale will be lit green.

**Important**

If any of the four pad indicator lights are red or yellow in color, or if the controller indicates *COMM ERROR, TRY AGAIN*, press the up arrow to highlight the *Yes* prompt. Press **OK** and repeat the zeroing out process.



**Note** *Make sure to zero out the scale each time the scale is moved.*

9. After the controller completes the process, the display shows *Zeroing Complete* and will verify that all four pad numbers on the controller display are indicated with green circles.
10. The controller will ask *Repeat Zero Out*. If all numbers are circled in green in the controller display, then the display highlights *NO*. Press **OK** and the display returns back to the main menu screen.
11. Select *Weigh Patient* from the main menu. The display shows *Acquiring Data*. During this time the display screen will dim for approximately five seconds and the scale pads will be lit green. Patient weight will then be displayed.
12. Press **OK** and the display returns back to the main menu. If there is a problem acquiring data, *COMM ERROR TRY AGAIN* is displayed.
13. Attach mini ramps back onto the scale pads.
14. Release brakes and remove bed off of scale pads.

## 4.2 Select Patient/Record

This option is used to add a new patient/record and to monitor existing entries into the patient database. This database can support up to 40 patients and allows the user to monitor weight history for up to 90 readings. To use this parameter use the following steps. This option is only available with access to the deep settings mode which is available in the Options Menu.

## 4.3 Options Menu

There are several options available on the D1100 Series wireless bed scale. To access those options, press the upper-right display button on the handheld controller.



Figure 4-3. Setup/Options Button Location

### 4.3.1 Help

This option includes basic written facts to help with setup and ease of use.

- **Getting Started** provides general information on how to get started using your scale.
- **Weighing Patient + Chair** provides a quick weight reading with patient and chair without the ability to save to the patient database.
- **Helpful Hints** gives helpful way to achieve the best results and functionality.

### 4.3.2 Beep Preference

The D1100 Series wireless bed scale system is designed with beep alerts.

The controller is defaulted to *Never*.

*Lost Pad Connection* can also be selected and will alert the user if there is an error or obstruction preventing clear communication with the scale pads.

Additional beep preference settings are available but because they are associated with patient database information, are only available in the D1100 Series service manual.

### 4.3.3 Date & Time

This option is for setting the current date and time. Use the following steps to set up date and time.

1. To enter the current year, use the up and down arrows to enter find the current year and press the **OK** button.
2. To enter the current month, use the up and down arrows on the controller to find the current month and press the **OK** button.
3. To enter the current day, use the up and down arrows on the controller to find the current date and press the **OK** button.
4. To enter the current hour, use the up and down arrows on the controller until the correct hour appears then press **OK**.
5. To enter the current minutes, use the up and down arrows on the controller until the correct minute appears, then press **OK**.

### 4.3.4 Deep Setting

This option is pass code protected for changing functionality in much more detail. Additional information on deep settings are only available in the D1100 Series service manual.

## 5.0 Troubleshooting

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Use the following troubleshooting tips if the unit isn't working properly.

- When scale pads are not found by the controller or will not turn on:
  - Check batteries in each scale pad and the controller to ensure proper placement and connection.
- If the weight readings are inconsistent, check the flooring on which the pads are placed. The scale needs to be used on level flooring, such as tile, cement, hardwood and clear of any debris.
- Make sure the mini ramps have been removed prior to weighing.
- If you have followed these directions and are still not getting the desired results, call (800) 472-6703 and ask for technical support.

## 6.0 Limited Warranty

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Rice Lake Weighing Systems (RLWS) warrants that all RLWS equipment and systems properly installed by a Distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by RLWS. All systems and components are warranted against defects in materials and workmanship for two years.

RLWS warrants that the equipment sold hereunder will conform to the current written specifications authorized by RLWS. RLWS warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, RLWS will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

- Upon discovery by Buyer of such nonconformity, RLWS will be given prompt written notice with a detailed explanation of the alleged deficiencies.
- Individual electronic components returned to RLWS for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in a publication, *Protecting Your Components From Static Damage in Shipment*, available from RLWS Equipment Return Department.
- Examination of such equipment by RLWS confirms that the nonconformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair or improper testing; RLWS shall be the sole judge of all alleged non-conformities.
- Such equipment has not been modified, altered, or changed by any person other than RLWS or its duly authorized repair agents.
- RLWS will have a reasonable time to repair or replace the defective equipment. Buyer is responsible for shipping charges both ways.
- In no event will RLWS be responsible for travel time or on-location repairs, including assembly or disassembly of equipment, nor will RLWS be liable for the cost of any repairs made by others.

**THESE WARRANTIES EXCLUDE ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER RLWS NOR DISTRIBUTOR WILL, IN ANY EVENT, BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

**RLWS AND BUYER AGREE THAT RLWS'S SOLE AND EXCLUSIVE LIABILITY HEREUNDER IS LIMITED TO REPAIR OR REPLACEMENT OF SUCH GOODS. IN ACCEPTING THIS WARRANTY, THE BUYER WAIVES ANY AND ALL OTHER CLAIMS TO WARRANTY.**

**SHOULD THE SELLER BE OTHER THAN RLWS, THE BUYER AGREES TO LOOK ONLY TO THE SELLER FOR WARRANTY CLAIMS.**

**NO TERMS, CONDITIONS, UNDERSTANDING, OR AGREEMENTS PURPORTING TO MODIFY THE TERMS OF THIS WARRANTY SHALL HAVE ANY LEGAL EFFECT UNLESS MADE IN WRITING AND SIGNED BY A CORPORATE OFFICER OF RLWS AND THE BUYER.**

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